



Rocky Flats Environmental Technology Site
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September 15, 1995

95-RF-07153
95-RM-ER-089-KH

Jessie M. Roberson
Manager
Environmental Restoration Program Division
DOE, RFFO

SUBMITTAL OF THE TWELFTH QUARTERLY UPDATE TO THE HISTORICAL RELEASE REPORT -
AMP-089-95

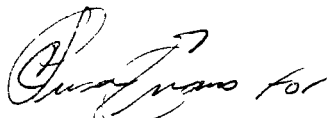
Dear Jessie,

Enclosed is the final twelfth quarterly Update Report to the Historical Release Report for
April 1, 1995, through July 31, 1995. We are submitting six copies of this updated report to
Norma Castaneda for transmittal of this document to the Environmental Protection Agency and the
Colorado Department of Public Health and Environment.

This report is being submitted in accordance with the Interagency Agreement, Sections I B 3
Notification and I B 5 Historical Release Report.

If you have any questions or comments regarding this transmittal, please contact Nick Demos of my
staff at extension 6938 or digital page 3842.

Sincerely,



Alan M. Parker
Vice President
ER Projects

NSD rap

Orig and 1 cc - J. M. Roberson

cc

N I Castaneda	-	DOE, RFFO	
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**QUARTERLY UPDATE
FOR APRIL 1, 1995
THROUGH JUNE 30, 1995**

**HISTORICAL RELEASE
REPORT (HRR)**



August 1995

QUARTERLY UPDATE

FOR APRIL 1, 1995 THROUGH
JUNE 30, 1995

HISTORICAL RELEASE REPORT (HRR)

PREPARED BY

ENVIRONMENTAL RESTORATION

ROCKY MOUNTAIN REMEDIATION SERVICES, L.L.C.

AUGUST 1995

HRR QUARTERLY UPDATE AGENCY ACCEPTANCE FORM

HRR QUARTERLY UPDATE 12

The recommendations of the Department of Energy (DOE) with regard to the need for future actions, or the lack of the need for future actions, are included in each PAC narrative description included in this quarterly update. Any PACs for which a decision is deferred will be addressed in future HRR quarterly updates.

Exceptions to the recommended actions should be noted below or attach comments to this form as needed.

Please provide comments and/or acceptance within two weeks from receipt of quarterly update submittal.

DOE Signature	CDH Signature	EPA Signature
	<input type="checkbox"/> CDH agrees with recommendations	<input type="checkbox"/> EPA agrees with recommendations
	<input type="checkbox"/> CDH disagrees with recommendations, see comments	<input type="checkbox"/> EPA disagrees with recommendations, see comments
DOE Concurrence	CDH Signature and Position	EPA Signature and Position

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INTRODUCTION

This Twelfth Quarterly Update to the Historical Release Report (HRR) provides a variety of information pertaining to spills, releases, or findings of contaminants at the Rocky Flats Environmental Technology Site (RFETS). Attachment 2, Section I B 3 to the Interagency Agreement (IAG) dated January 1991 states that the Department of Energy (DOE) shall amend the Historical Release Report every three months to include newly identified or suspected releases for which DOE has notified the Environmental Protection Agency (EPA) and Colorado Department of Public Health & Environment (CDPH&E). Spills, releases or findings which require reporting in this report are identified as Potential Areas of Concern (PACs). PAC writeups include Department of Energy, Rocky Flats Field Office (DOE, RFFO) recommendations for further action required or no further action required based upon all available process knowledge, analytical data, or formally conducted personal interviews. The Agency Acceptance Form on the second page of this report has been included in the past five quarterly reports to reach concurrence or non-concurrence on DOE RFFO recommendations from the regulatory agencies for action or no action acceptance.

Information for this quarterly report is structured as follows

- Releases to the environment identified during April 1, 1995, through June 30, 1995,
- Revisions to PAC narratives,
- An up to-date Individual Hazardous Substance Site (IHSS) map, and
- An up-to-date Potential Area of Concern (PAC) map
- Listing of PACs identified since the June 1992 HRR per Attachment 2, Section I B 3 of the Interagency Agreement (IAG) - Quarterly Notification (see Appendix 1),
- Listing of all PACs identified in the June 1992 HRR (see Appendix 2),

Appendix 1 provides a list of all PACs identified since the June 1992 HRR. It also provides a cross-reference for the Operable Unit (OU) in which the incident occurred, IHSS numbers for spills occurring within an IHSS, a Resource Conservation and Recovery Act (RCRA) Contingency Plan Implementation Report (CPIR) cross-reference number and the number of the quarterly update in which the PAC was originally identified.

Appendix 2 provides a listing of all PACs referenced in the June 1992 Final HRR.

Revisions to PAC narratives are reserved for Section 3.0 of this document. Section 3.0 is used to modify past narratives based on additional information which becomes available after the reporting process has begun. Typically, additional information consists of validated analytical data from sampling or additional sample results from a later collection event.

Up-to-date copies of IHSS and PAC maps are included in Section 5.0. The IHSS map reflects the most current boundary location of IHSSs based on work to date at the various Operable Units. Two IHSS boundary changes have been incorporated on the IHSS map included within this quarterly report. Changes to IHSS #109 and #114 boundaries reflect the most accurate location based upon recent field investigations. The PAC map includes PACs identified to date, as well as Under Building Contamination (UBC) sites. Up-to-date maps will continue to be issued with each quarterly report. These maps are made available to plant organizations requiring the most accurate and current information.

SECTION 2.0

NEW PAC NARRATIVES

(PACS IDENTIFIED DURING APRIL 1, 1995 THROUGH JUNE 30, 1995)

PAC REFERENCE NUMBER: 500-908

IHSS Number 186 & 156 1
Unit Name Oil Released from Air Compressor
CPIR No 95-003
Approx Location N750,000, E2,083,000

Date(s) of Operation or Occurrence

May 15, 1995

Description of Operation or Occurrence

At approximately 6 00 p m on May 15, 1995, a subcontract employee discovered that the air ejector vent associated with an air compressor inside the Nitrogen Plant (Bldg 223) was plugged resulting in a release of 15 gallons of used air compressor oil. Approximately 14 gallons of the used oil was released within the building and one gallon may have flowed into the building floor drain before the release was identified. In addition, an estimated 1 gallon of oil was sprayed onto a rocky area outside of the building near the northwest corner staining approximately a six foot by thirty foot area.

Physical/Chemical Description of Constituents Released

The used oil released from the air compressor was originally handled as a hazardous waste constituent based upon process knowledge and analytical data gathered from other similar releases of air compressor equipment. However, the analytical screening data from samples collected on May 16, 1995, for select metals and volatile organics indicate the levels of toxic constituents for the material released are well below Toxicity Characteristic Leaching Procedure (TCLP) regulatory limits and therefore, the used oil and affected soil is not a hazardous waste.

Response to Operation or Occurrence

Immediately after discovering that the air ejector vent was plugged on May 15, 1995 at 6 00 p m, the subcontract employee unplugged the external vent which stopped the release of used oil. On the following day at 12 00 p m, the oil released within building 223 was cleaned up using absorbent materials and placed into a single drum. The visibly stained rock and soil released to the environment outside of the building was removed and containerized by 3 45 p m that afternoon. Approximately 2,800 pounds of rock and 10 pounds of soil/mud were removed from the site northwest of the building. Four drums were filled for the cleanup outside of the building and managed as non hazardous waste.

Fate of Constituents Released to Environment

Analytical screening results for the soil and rock in the area of the release show that the levels of detected toxic metals and volatile organic compounds are well below the Toxicity Characteristic Leaching Procedure (TCLP) limits. Any used oil that may have entered the Building 223 floor drain was not recoverable and therefore was treated in the Waste Water Treatment Plant process.

Action/No-Action Recommendation

This PAC does not warrant further investigation due to the small amount of material released to the environment, the immediate cleanup response, and the analytical screening data showing that the spilled material is non hazardous. There was no evidence of historical contamination found as a result of the release occurring in Individual Hazardous Substance Sites 186 and 156.1 due primarily to the abundance of rock in the area.

Comments

None

APPENDIX 1
NEW PACS IDENTIFIED IN QUARTERLY UPDATES

IHSS ¹	OU ¹	CPIR Cross- Reference ²	PAC	PAC NAME ³	Original Quarterly Update #
142 6	6	NA	NE-1404	Diesel Spill at Pond B-2 Spillway	2
NA	2	NA	NE-1405	Diesel Fuel Spill at Field Treatability Unit (<i>formerly NE- 1404</i>)	3
NA	4	NA	NE-1406	771 Hillside Sludge Release	4
NA	2	93-002	NE-1407	OU 2 Treatment Facility	4
NA	2	93-005	NE-1408	OU 2 Test Well (<i>formerly NE- 1406</i>)	4
NA	4	93-007	NE-1409	Modular Tanks and 910 Treatment System Spill (<i>formerly 000-503</i>)	5
NA	2	NA	NE-1410	Diesel Fuel Spill at Field Treatability Unit	7
NA	2	NA	NE-1411	Diesel Fuel Overflowed from Tanker at OU 2 Field Treatability Unit	7
NA	2	NA	NE-1412	Trench T-12 Located in OU-2 East Trenches	10
NA	2	NA	NE-1413	Trench T-13 Located in OU-2 East Trenches	10
NA	10	NA	NW-1500	Diesel Spill at PU&D Yard (<i>formerly NW-175</i>)	2
NA	10	NA	NW-1501	Asbestos Release at PU&D Yard (<i>formerly NW-176</i>)	2
114	7	92-021	NW-1502	Improper Disposal of Diesel Contaminated Material at Landfill (<i>formerly NW-177</i>)	2

APPENDIX 1 (continued)
NEW PACS IDENTIFIED IN QUARTERLY UPDATES

IHSS ¹	OU ¹	CPIR Cross- Reference ²	PAC	PAC NAME ³	Original Quarterly Update #
114	7	92-004	NW-1503	Improper Disposal of Fuel Contaminated Material at Landfill	1
114	7	94-002	NW-1504	Improper Disposal of Thorosilane Contaminated Material at Landfill	7
NA	5	NA	SW-1701	Recently Identified Ash Pit	9
NA	5	NA	SW-1702	Recently Identified Ash Pit	9
NA	NA	94-005	000-503	Solar Pond Water Spill Along Central Avenue	7
NA	NA	93-003	100-613	Asphalt Surface in Lay Down Yard North of Building 130 <i>(formerly identified as 000-501)</i>	4
NA	NA	93-003	300-711	Ni-Cad Battery Spill Outside of Building 373	1
NA	NA	92-002	300-712	1/2 gal Antifreeze Spilled by Street Sweeper Outside of Building 373	1
NA	NA	94-006	300-713	Caustic Spill North of Building 331	8
NA	NA	94-012	300-714	Lanudry Waste Water SPill From Tank T-803, North of Building 374	10

APPENDIX 1 (continued)
NEW PACS IDENTIFIED IN QUARTERLY UPDATES

IHSS ¹	OU ¹	CPIR Cross- Reference ²	PAC	PAC NAME ³	Original Quarterly Update #
NA	NA	NA	400-811	Transformer 443-2, Building 443	2
NA	NA	93-009	400-812	Tank T-2 Spill in Building 460	6
NA	NA	94-001	400-813	RCRA Tank Leak in Building 460	7
NA	NA	94-007	400-814	Air Conditioner Compressor Release, Building 444 Roof	8
NA	NA	94-008	400-815	RCRA Tank Leak in Building 460	8
NA	NA	93-004	500-906	Asphalt Surface Near Building 559	4
172	13	94-009	500-907	Tanker Truck Release of Hazardous Waste From Tank 231B	9
156 1, 186	13, 14	95-003	500-908	Oil Released from Air Compressor	12
152, 157 1, 172	12	NA	600-1004	Central Avenue Ditch Cleaning Incident (formerly identified as 400-820)	6
NA	NA	NA	600-1005	Former Pesticide Storage Area	7
101	4	95-002	700-113	Water Released from the 207C Solar Evaporation Pond	11
NA	NA	92-005	800-1212	Building 866 Sump Spill	5

APPENDIX 1 (continued)
NEW PACS IDENTIFIED IN QUARTERLY UPDATES

IHSS ¹	OU ¹	CPIR Cross-Reference ²	PAC	PAC NAME ³	Original Quarterly Update #
NA	NA	NA	900-1308	Gasoline Spill Outside of Building 980	6
NA	2	93-010	900-1309	OU 2 Field Treatability Unit Spill	6
NA	NA	92-023	900-1310	ITS Water Spill (formerly identified as 000-502)	2
NA	NA	NA	900-1311	Septic Tank East of Building 991	7
NA	2	94-004	900-1312	OU-2 Water Spill	7
192	16	NA	900-1313	Seep Area Near OU-2 Influent	9
101	4	94-010	900-1314	Solar Evaporation Pond 207B Sludge Release	9
NA	NA	94-013	900-1315	Tanker Truck Release on East Patrol Road, North of Spruce Ave	11
NA	NA	NA	900-1316	Elevated Chromium (total) Identified During Geotechnical Drilling	10
176	10	95-001	900-1317	Soil Released from Wooden Crate in 964 Laydown Yard	11

¹NA = Not applicable Not all PACs are located in Individual Hazardous Substance Sites (IHSSs) or Operable Units (OUs) Likewise, not all PACs are identified in RCRA Contingency Plan Implementation Reports (CPIRs)

²RCRA Contingency Plan Implementation Report (CPIR) identified during the Twelfth Quarter includes CPIR 95-003 This incident involved a release to the environment and is therefore identified as a PAC

³Several PAC numbers have been revised to reflect a more accurate location on the PAC map Former PAC numbers are identified in parentheses within italics

APPENDIX 2
ORIGINAL POTENTIAL AREAS OF CONCERN
SUBMITTED IN HISTORICAL RELEASE REPORT - JUNE 1992

IHSS NO	OU NO	PAC NO	PAC NAME	PAGE
NORTHEAST BUFFER ZONE				
NA ²	NA	NE-1400	Tear Gas Powder Release	NE-36
NA	NA	NE-1401	NE Buffer Zone Gas Line Break	NE-37
NA	NA	NE-1402	East Inner Gate PCB Spill	NE-38
NA	NA	NE-1403	Gasoline Spill - Building 920 Guard Post	NE-39
NORTHWEST BUFFER ZONE				
NA	NA	SE-1600	Pond 7 - Steam Condensate Releases	SE-10
NA	NA	SE-1601	Pond 8 - Cooling Tower Discharge Releases	SE-13
SOUTHWEST BUFFER ZONE				
NA	NA	SW-1700	Fuel Spill into Woman Creek Drainage	SW-15
000 AREA				
NA	NA	000-500	Sanitary Sewer System	000-49
NA	NA	000-501	Roadway Spraying	000-60
100 AREA				
NA	NA	100-600	Mercury Spill - Valve Vault 124-B, Building 124	100-8
NA	NA	100-601	Building 123 Phosphoric Acid Spill	100-10
NA	NA	100-602	Building 123 Process Waste Line Break	100-11
NA	NA	100-603	Building 123 Bioassay Waste Spill	100-13
NA	NA	100-604	T130 Complex Sewer Line Leaks	100-15
NA	NA	100-605	Building 115 Hydraulic Oil Spill	100-16
NA	NA	100-606	Building 125 TCE Spill	100-17

APPENDIX 2 (continued)

IHSS NO	OU NO	PAC NO	PAC NAME	PAGE
NA	NA	100-607	Building 111 Transformer PCB Leak	100-18
NA	NA	100-608	Building 131 Transformer Leak	100-20
NA	NA	100-609	Building 121 Security Incinerator	100-21
NA	NA	100-610	Asbestos Release - Building 123	100-22
NA	NA	100-611	Building 123 Scrubber Solution Spill	100-23
NA	NA	100-612	Battery Solution Spill - Building 119	100-25
300 AREA				
NA	NA	300-700	Scrap Roofing Disposal	300-25
NA	NA	300-701	Sulfuric Acid Spill - Building 371	300-26
NA	NA	300-702	Pesticide Shed	300-27
NA	NA	300-703	Building 331 North Area	300-28
NA	NA	300-704	Roof Fire, Building 381	300-29
NA	NA	300-705	Potassium Hydroxide Spill North of Building 374	300-30
NA	NA	300-706	Evaporator Tanks North of Building 374	300-31
NA	NA	300-707	Sanitizer Spill	300-33
NA	NA	300-708	Transformers North of Building 371	300-34
NA	NA	300-709	Transformer Leak 334-1	300-35
NA	NA	300-710	Gasoline Spill North of Building 331	300-36
400 AREA				
NA	NA	400-800	Transformer 443-1	400-40
NA	NA	400-801	Transformer, Roof of Building 447	400-41
NA	NA	400-802	Storage Area, South of Building 334	400-42

APPENDIX 2 (continued)

IHSS NO	OU NO	PAC NO	PAC NAME	PAGE
NA	NA	400-803	Miscellaneous Dumping, Building 460 Storm Drain	400-44
NA	NA	400-804	Road North of Building 460	400-45
NA	NA	400-805	Building 443 Tank #9 Leak	400-46
NA	NA	400-806	Catalyst Spill, Building 440	400-47
NA	NA	400-807	Sandblasting Area	400-48
NA	NA	400-808	Vacuum Pump Leak - Building 442	400-49
NA	NA	400-809	Oil Leak - 446 Guard Post	400-51
NA	NA	400-810	Beryllium Fire - Building 444	400-52
500 AREA				
NA	NA	500-900	Transformer Leak - 515/516	500-15
NA	NA	500-901	Transformer Leak - 555	500-17
NA	NA	500-902	Transformer Leak - 559	500-18
NA	NA	500-903	RCRA Storage Unit #1	500-19
NA	NA	500-904	Transformer Leak - 223-1/223-2	500-20
NA	NA	500-905	Transformer Leak - 558-1	500-22
600 AREA				
NA	NA	600-1000	Transformer Storage Building 662	600-18
NA	NA	600-1001	Temporary Waste Storage Building 663	600-20
NA	NA	600-1002	Transformer Storage - West of Building 666	600-24
NA	NA	600-1003	Transformers North and South of 661-675 Substation	600-25

APPENDIX 2 (continued)

IHSS NO	OU NO	PAC NO	PAC NAME	PAGE
700 AREA				
NA	NA	700-1100	French Drain North of Building 776/777	700-76
NA	NA	700-1101	Laundry Tank Overflow - Building 732	700-77
NA	NA	700-1102	Transformer Leak - 776-4	700-78
NA	NA	700-1103	Leaking Transformers - Building 707	700-80
NA	NA	700-1104	Leaking Transformers - Building 708	700-82
NA	NA	700-1105	Transformer Leak - 779-1/779-2	700-83
NA	NA	700-1106	Process Waste Spill - Portal 1	700-84
NA	NA	700-1107	Compressor Waste Oil Spill - Building 776	700-86
NA	NA	700-1108	771/774 Footing Drain Pond	700-87
NA	NA	700-1109	Uranium Incident - Building 778	700-90
NA	NA	700-1110	Nickel Carbonyl Burial West of Building 771	700-91
NA	NA	700-1111	Leaking Transformer - Building 750	700-92
NA	NA	700-1112	Leaking Transformer - 776-5	700-93
800 AREA				
NA	NA	800-1200	Valve Vault 2	800-28
NA	NA	800-1201	Radioactive Site South of Building 883	800-30
NA	NA	800-1202	Sulfuric Acid Spill, Building 883	800-31
NA	NA	800-1203	Sanitary Sewer Line Break Between Buildings 865 and 886	800-32
NA	NA	800-1204	Building 866 Spills	800-33
NA	NA	800-1205	Building 881, East Dock	800-35

APPENDIX 2 (continued)

IHSS NO	OU NO	PAC NO	PAC NAME	PAGE
NA	NA	800-1206	Fire, Building 883	800-36
NA	NA	800-1207	Transformer 883-4	800-37
NA	NA	800-1208	Transformer 881-4	800-38
NA	NA	800-1209	Leaking Transformers, 800 Area	800-39
NA	NA	800-1210	Transformer 865-1 and 865-2	800-40
NA	NA	800-1211	Capacitor Leak, Building 883	800-41
900 AREA				
NA	NA	900-1300	RO Plant Sludge Drying Beds	900-47
NA	NA	900-1301	Building 991 Enclosed Area	900-48
NA	NA	900-1302	Gasoline Spill	900-50
NA	NA	900-1303	Natural Gas Leak	900-51
NA	NA	900-1304	Chromic Acid Spill - Building 991	900-52
NA	NA	900-1305	Building 991 Roof	900-53
NA	NA	900-1306	Transformers 991-1 and 991-2	900-54
NA	NA	900-1307	Explosive Bonding Pit	900-55

THIS TARGET SHEET REPRESENTS AN
OVER-SIZED MAP / PLATE FOR THIS DOCUMENT:
(Ref. 95-Rf-07153; 95-RM-ER-089-KH)

**Quarterly Update for April 1, 1995
through June 30, 1995
Historical Release Report**

August 1995

**Individual Hazardous Substance
Sites by Operable Unit**

Map ID: oushd

August 21, 1995

CERCLA Administrative Record Document, SW-A-002591

U S DEPARTEMENT OF ENERGY
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

GOLDEN, COLORADO

THIS TARGET SHEET REPRESENTS AN
OVER-SIZED MAP / PLATE FOR THIS DOCUMENT:
(Ref: 95-Rf-07153; 95-RM-ER-089-KH)

**Quarterly Update for April 1, 1995
through June 30, 1995
Historical Release Report**

August 1995

Potential Areas of Concern

Map ID: pacs1094

August 21, 1995

CERCLA Administrative Record Document, SW-A-002591

U S DEPARTEMENT OF ENERGY
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

GOLDEN, COLORADO